

ABSTRACT OF THE DISCLOSURE

A pulse management system for use by an operator that automatically performs measurements on a subset of pulses of an acquired signal stored in an acquisition memory, and generates an accessible data structure that stores characteristics of the chosen subset of acquired signal pulses, including pulse measurement results. The system searches the data structure for pulses of the acquired signal that satisfy operator-provided search criteria. In addition, the operator can sort the selected pulses in any desired manner by specifying a desired sort criteria. The system displays selected pulses along with the associated measurement results, and enables the operator to advance through the selected pulses in any manner desired to display different pulses together or separately along with the associated pulse measurement results. A method for analyzing pulses of an acquired signal is also disclosed. The method includes the step of generating a pulse data array having stored therein pulse characteristics of a previously acquired signal, followed by the step of analyzing the contents of the pulse data array in response to operator specifications.